

## • OUR MISSION

MultiXscale – a EuroHPC JU Center of Excellence involves 16 consortium partners who jointly develop multiscale simulation software to solve societal challenges associated with biomedicine, the transition to sustainable energy, and civil transport by supercomputers. The goal of MultiXscale is to develop software for computationally efficient multiscale simulations running on (pre)exascale HPC systems. The computer simulation codes and developed multiscale workflows will be openly accessible to researchers and engineers, user-friendly, easy-to-install, and with sustainable user support.

## • PARTNER ORGANIZATIONS:



# MultiXscale

## EuroHPC JU Center of Excellence

## CONTACT US

info@multixscale.eu

[www.multixscale.eu](http://www.multixscale.eu)



@multixscale

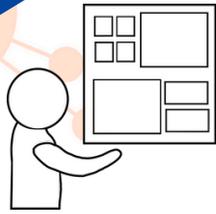


Co-funded by  
the European Union



EuroHPC  
Joint Undertaking

Funded by the European Union, the European High Performance Computing Joint Undertaking (JU) and countries participating in the project under grant agreement No 101093169.



## • SHOWCASES

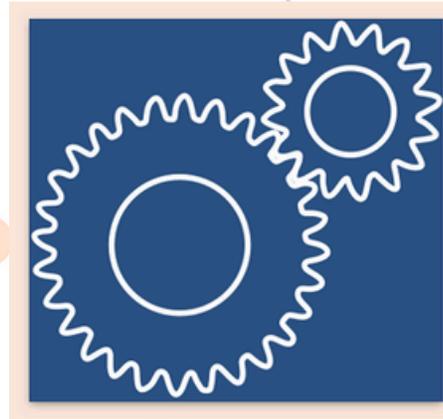
Advanced parallel aerodynamic code for rotor aeroelastic analyses

High-power battery applications:  
Towards enhanced supercapacitor systems

Biomedical applications of ultrasound:  
Improving diagnostics and guiding drug delivery

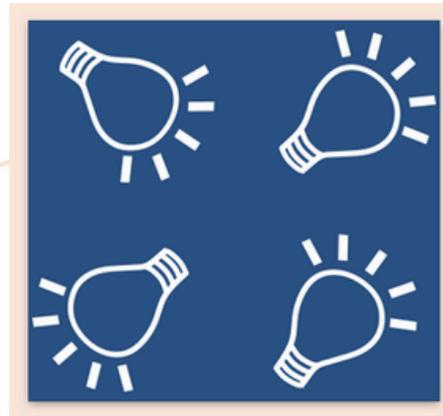


## • PARTNER NETWORKS:



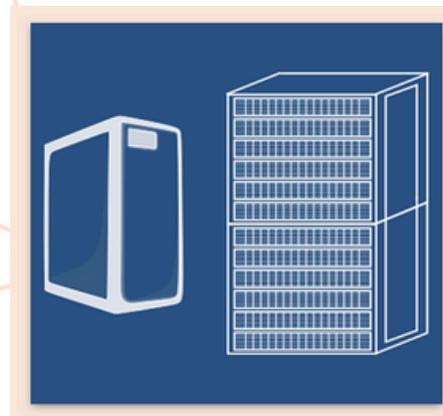
## • PERFORMANCE

Software installations optimized for specific CPU microarchitectures.  
Automatic selection of best suited software installations for more efficient use of HPC systems.



## • PRODUCTIVITY

Relieving scientists from having to reinstall software.  
Ready-to-use software releases.  
Easy access to dependencies for continuous integration and testing.



## • PORTABILITY

Shared software stack is not bound to a particular platform.  
Easy migration between systems without sacrificing performance.  
Easy to replicate results with the same software on any system.